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Solving System of Equations by Substitution

For questions (1-5), solve the following pair of linear equations using the substitution method:

1) $2y - 15x = 9$
 $-4y - 5x = 17$

2) $8u - 5v = 23$
 $-8u + 9v = 19$

3) $b + 5c - 11 = 0$
 $2b + 6c - 14 = 0$

4) $3n - 2m = 2$
 $-3n + 5m = 13$

5) $6e + 5f = 39$
 $2e + 3f = 17$

6) If one equation of a pair of dependent linear equations is $-3x + 7y = -2$, which of the following would be the second equation?

A. $-3x + 7y = -2$

B. $-3x + 7y = -2$

C. $-3x + 7y = -2$

D. $-3x + 7y = -2$

7) The difference between two numbers is 15. If the greater number is three more than twice the first number, find the two numbers.

8) The larger of two complementary angles exceed the smaller by 34° . Find them.

- 9) James sold a mobile phone and an electronic tablet for **\$1050**. He made a profit of 10% on the mobile phone and 25% on the electronic tablet. If he would have sold them for **\$1065**, he would have got a profit of 25% on the mobile phone and a profit of 10% on the electronic tablet. Find the cost of each.



- 10) A two-digit number is obtained by either multiplying the sum of the digits by 8 or then adding 4 or by multiplying the difference of the digits by 13 and then adding 1. Find the number.

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$x = -1$ $y = -3$
2)	$u = \frac{151}{16}$ $v = \frac{21}{2}$
3)	$b = 1$ $c = 2$
4)	$m = 5$ $n = 4$
5)	$e = 4$ $f = 3$
6)	(C)

7)	12,27
8)	$62^{\circ}, 28^{\circ}$
9)	Cost of a mobile phone = \$500 Cost of a electronic tablet = \$400
10)	92

FUN FACT

1. In the substitution method, we first substitute the first variable in terms of the other variable using the first linear equation.
2. We solve for the first variable and then for the second variable.
3. We use method of solving equations like the transposition method to find the value of the variable.

